

**CONTRACT MODIFICATION FORM**

**STATE OF HAWAII  
DEPARTMENT OF HEALTH**

Date June 12, 2012

ADM. SERV. OFFICE LOG NO. 11-047

MODIFICATION ORDER NO. 3

Contractor/Provider University of Hawaii

Contract Title Lahaina Tracer Study

**A. MODIFICATIONS**

The following modifications are to be performed in accordance with all contract stipulations (specifications, delivery point, rate of delivery, period of performance, price, quantity, or other provisions by mutual action of the parties to the contract).

See attachments for contract modifications.

**B. CONTRACTOR/PROVIDER'S QUOTATION**

The modifications described in A, above, will be performed at a contract price ☒ increase ☐ decrease of \$ 79,169.00. The Contractor/Provider will not undertake to perform the changes in A, above, until this modification order has been approved and issued.

\_\_\_\_\_  
Contractor/Provider's Signature

**C. STATEMENT OF CONTRACT FUNDS**

Original Contract Price	\$ <u>140,000.00</u>
Previous Adjusted Contract Price	\$ <u>201,802.02</u>
Amount of this Change: Plus <input checked="" type="checkbox"/> Minus <input type="checkbox"/>	\$ <u>79,169.00</u>
New Adjusted Contract Price	\$ <u><u>280,971.02</u></u>

**D. VALIDATION OF CONTRACT MODIFICATION**

\_\_\_\_\_  
Director of Health

\_\_\_\_\_  
Date

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1. The purpose of this document is to provide information regarding the status of the project.

2. The project is currently in the planning phase and is expected to be completed by the end of the year.

3. The project is being managed by the Project Management Office (PMO) and is being funded by the Department of Defense.

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**CONTRACT MODIFICATIONS:**

Effective June 25, 2012, the parties mutually agree that the CONTRACTOR shall continue to provide the required services with the following modifications:

1. Attachment - S1, Scope of Services.

Project Task 6 and 7 are added to read, as follows:

**"Task 6. Collection of Coastal Seep Monitoring Samples.**

The CONTRACTOR shall provide expertise and guidance in the monthly seep and quarterly toxics sampling. The CONTRACTOR will assist STATE personnel in the coastal seep sampling in accordance with the EPA approved Sampling and Analysis Plan.

This assistance shall include ensuring the sampling points are maintained in serviceable conditions, making the necessary sample point to pump connections, drawing the sample from the piezometer, and other assistance as needed by STATE personnel. This assistance shall be provided from July 1, 2012 until December 31, 2012. Sampling activities shall be properly documented and include appropriate field and laboratory quality control samples and procedures.

**Task 7. Collection and Analyses of Coastal Seep Tracer Samples.**

The fluorescein tracer dye injected in July 2011 for this project continues to discharge at the submarine seeps near the Lahaina Wastewater Treatment Facility. The Sulpho-Rhodamine-B dye has not yet been detected. The CONTRACTOR will continue to collect and analyze samples from July 1, 2012 until December 31, 2012. This sampling will occur at least once (1) per week.

In addition to the tracer sampling, an Acoustic Doppler Current Profiler (ADCP) survey will be conducted for identified accessible seeps to quantify to the extent feasible the total discharge of submarine groundwater from point sources in the study area. This best estimate of total seep discharge will be combined with salinity measurements and the tracer dye results from the seeps to quantify the mass of dye discharged from these points. We will continue to estimate the spatial extent of effluent discharge by collecting samples over the study area and analyzing them for dye content. Periodic samples will be collected from the nearshore zone adjacent to Honokowai Beach Park and extend south to Black Rock Point. These samples will be collected with a syringe from any obvious groundwater discharges, including sand formations and crevices in the seafloor, where diffuse discharge may occur.

Within sixty (60) days following the end of sampling, the CONTRACTOR shall submit a draft addendum report documenting the field and laboratory activities from July 1, 2012 through December 31, 2012. The primary purpose of this report will be the analysis of the tracer study including data for all sites sampled and results of their analysis. Results shall highlight where positive tracer detections were found with a summary of first, peak, and latest dye concentrations. This report will also describe and document the results of

the tracer test numerical modeling. EPA and STATE staff will have thirty (30) days to review and provide comments on the draft report. The CONTRACTOR will incorporate changes as needed to the draft report and submit a final report to the key stakeholders by April 15, 2013.”

2. Attachment - S2, Compensation and Payment Schedule.

- a. The total compensation amount of the Contract is increased by \$79,169.00 of federal funds (CWB MI funds - \$44,028.00 and GW-106 - \$35,141.00).
- b. The “Budget,” attached to the Contract as Exhibit “D,” is hereby deleted and replaced with a revised “Budget,” attached hereto as Exhibit “E” and made a part hereof.
- c. The STATE has received the FY12 Water Pollution Control – Groundwater grant, dated August 11, 2011, for the budget period October 1, 2011 through September 30, 2012 and FY12 Water Pollution Control – Monitoring Initiative grant, to pay for the additional services provided.
- d. Source of Funds:

S 11 201 H 0000 000237 09 377 (GW-106)	\$ 140,000.00
S 12 201 H 0000 000601 10 450 (CWB MI funds)	\$ 75,274.02
S 12 201 H 0000 000237 10 377 (GW-106)	\$ 65,697.00

3. The Time of Performance is extended from June 30, 2012 to April 15, 2013.

4. All other terms and conditions of the Contract shall remain the same.

# LAHAINA TRACER STUDY - PHASE II

## BUDGET

May 17, 2011 to April 15, 2013

PI	Dr. Craig Glenn		Task 6	Task 7	Total
<b>A. SENIOR PERSONNEL</b>		rate			
1.	Glenn (0.50 month reg)	40.25%	\$0	\$4,838	\$4,838
4.	Dailer (6.0 month reg)	40.25%	\$26,763	\$0	\$26,763
<b>TOTAL SENIOR PERSONNEL</b>			\$26,763	\$4,838	\$31,601
<b>B. OTHER PERSONNEL</b>					
1.	Whittier (1.5 mos reg)	40.25%	\$0	\$5,934	\$5,934
2.	Haily (1.0 mos reg)	2.17%	\$0	\$2,947	\$2,947
3.	Jeff Sevardjian (0.75 mos)	24.34%	\$0	\$3,270	\$3,270
<b>Total - Other Personnel</b>			\$0	\$12,151	\$12,151
<b>Graduate Students (none)</b>					
	Grad Student (0.0 mos)	2.29%	\$0	\$0	\$0
<b>Total - Graduate Students</b>			\$0	\$0	\$0
<b>Undergraduate Students</b>					
1.	Jeffery Skrotzki (2.0 mos)	0.52%		\$4,437	\$4,437
<b>Total - Undergraduates</b>			\$0	\$4,437	\$4,437
<b>TOTAL SALARIES &amp; WAGES</b>			\$26,763	\$21,426	\$48,189
<b>C. FRINGE BENEFITS</b>			\$10,772	\$5,219	\$15,991
<b>TOTAL SALARIES, WAGES &amp; FRINGE</b>			\$37,535	\$26,645	\$64,180
<b>D. EQUIPMENT</b>					
<b>E. TRAVEL</b>			\$0	\$1,500	\$1,500
<b>F. OTHER DIRECT COSTS</b>					
1.	Material and Supplies		\$300	\$2,000	\$2,300
2.	Sample Shipping		\$0	\$600	\$600
<b>Total Other Direct Costs</b>			\$300	\$2,600	\$2,900
<b>G. TOTAL DIRECT COSTS</b>			\$37,835	\$30,745	\$68,580
<b>H. INDIRECT COSTS*</b>			\$6,193	\$4,396	\$10,589
<b>I. TOTAL DIRECT + INDIRECT COSTS</b>			\$44,028	\$35,141	\$79,169
<b>*16.5% of direct salaries &amp; fringe benefits</b>					
<b>RATE: 16.5%</b>					
Previous Adjusted Contract Price					\$201,802.02
New Adjusted Contract Price					\$280,971.02

**Source of Funds**  
 S 11 201 H 0000 000237 09 377 (GW-106)  
 S 12 201 H 0000 000601 10 450 (CWB MI funds)  
 S 12 201 H 0000 000237 10 377 (GW-106)

**Time of Performance**  
 May 17, 2011 - September 31, 2011  
 October 1, 2011 - April 15, 2013  
 October 1, 2011 - September 31, 2012

**Funds**  
 \$140,000.00  
 \$ 75,274.02  
 \$ 65,697.00

**ADM. SERV. OFFICE**  
**LOG NO. 11-047-M3**

**EXHIBIT "E"**  
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